

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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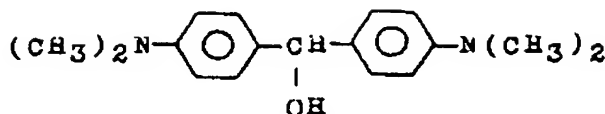
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TITLE : FOUL BREATH DETECTING AGENT



**ABSTRACT :** **PURPOSE:** To detect simply and sharply by utilizing the fact that dense blue color of the following reagent is decolorized quickly under the existence of a foul breath component, by using 4, 4'-bisdimethylaminodiphenyl carbitol, especially a foul breath detecting agent containing said carbitol and a specific surface active agent.

**CONSTITUTION:** 4, 4'-Bisdimethylaminodiphenyl carbitol (BDC-OH) designated by the formula is dissolved in water or a mixed solvent of acetone, ethanol and water in 0.005~1% concentration and said solution is kept at 2~7pH by using a buffer. The sensitivity is improved moreover by adding an anionic and amphoteric surface active agent to said solution to be 0.001~10% concentration. 0.5ml saliva is mixed with 0.5ml reagent and said mixture is left as it is at a room temperature for 25min and hereafter, is centrifuged. Absorbance of supernatant liquid is measured by 610nm wavelength and measured value is compared with a working curve using a standard substance dithioslatol having an SH radical preliminarily and then, the SH radical concentration of decomposed product of protein closely related to a foul breath in the saliva is measured. Hereby, the foul breath is detected accurately without differences between individuals.

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